

X - Mathematics Assignment No. 10 - Surface Areas and Volume.M. C. Q.

- Q1. The volume of a cylinder is $448\pi \text{ cm}^3$ and height is 7 cm. Its C.S.A is
 (i) 352 cm^2 (ii) 325 cm^2 (iii) 532 cm^2 (iv) 525 cm^2
- Q2. The radius and height of a cylinder are in the ratio 5:7 and its volume is $550\pi \text{ cm}^3$.
 The radius of cylinder is
 (i) 10 cm (ii) 5 cm (iii) 15 cm (iv) 20 cm.
- Q3. The radius and vertical height of a cone are 5 cm and 12 cm respectively. The C.S.A of cone is
 (i) 204 cm^2 (ii) 204.01 cm^2 (iii) 204.3 cm^2
 (iv) 204.012 cm^2
- Q4. The base radii of two right circular cones of the same height are in the ratio 3:5. The ratio of their volumes is
 (i) 25:9 (ii) 5:12 (iii) 12:5 (iv) 9:25
- Q5. Volume of a frustum of a cone is
 (i) $\frac{1}{3}\pi h(r_1^2 + r_2^2 + r_1 r_2)$ (ii) $\frac{1}{3}\pi(r_1^2 + r_2^2 + r_1 r_2)$
 (iii) $\frac{1}{3}\pi(r_1^2 - r_2^2 + r_1 r_2)$

Q6. T.S.A. of a Sphere is 3850 cm^2 . The diameter of the sphere is

- (i) 30 cm (ii) 35 cm (iii) 40 cm^2 (iv) 45 cm^2

Q7. The largest Sphere is Carved out of a Cube of side 7cm has the radius equal to

- (i) 7cm (ii) 14cm (iii) 3.5cm (iv) 2.5cm

Q8. Spherical ball of diameter 21cm is melted and recasted into Cubes, each of side 1cm. The number of Cubes are

- (i) 4800 (ii) 4823 (iii) 4850 (iv) 4851

Q9. The S.A. of a Sphere is 154 cm^2 . The Volume of Sphere is

- (i) 179.67 cm^3 (ii) 178.76 cm^3 (iii) 169.76 cm^3
 (iv) 791.79 cm^3

Q10. The volume of a Sphere is $905\frac{1}{7} \text{ cm}^3$. The radius of the Sphere is

- (i) 8cm (ii) 6cm (iii) 4cm (iv) 10cm.

ANSWERS:

(Q1) (i)	(Q5) (i)	(Q9) (i)
(Q2) (ii)	(Q6) (ii)	(Q10) (ii)
(Q3) (iii)	(Q7) (iii)	
(Q4) (iv)	(Q8) (iv)	